CERTIFIED REFERENCE MATERIAL LIST

contact@rofafrance.com

Accreditation n°1-6494
Scope available on
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COMPAGNY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001

GASOLINE

Only materials preceded by the sign * are covered by the accreditation

Test name	Item code	Designation	Product	Value	Bottle Volume	Production lot	Expiration date	The certified value of this CRM can be used with the following test meth :
	Below, Informations to be reported on your order							
Density	*DE-GA-xxx	Density_746.8 kg/m3_250ml	E10	746.8 kg/m3	250 ml	GA-xxx	04 2028	ISO 12185, ASTM D 4052, IP 365, ISO 3675, ASTM D 1298, IP 160
Distillation	*DI-GA-xxx	Distillation_32.2 °C_179.3 °C_250ml	E10	32.2 °C / 179.3 °C	250 ml	GA-xxx	04 2028	ISO 3405, ASTM D 86, IP 123
Vapour Pressure (DVPE)	*VP-GA-xxx	Reid Vapour_71.5 kPa_250ml	E10	71.5 kPa	250 ml	GA-xxx	04 2028	EN 13016-1, ASTM D 5191, ASTM D 4953, IP 394-1, IP 409-1, ASTM D 5482
Aromatic Content	*AC-GA-xxx	Aromatic Content_29.5 % vol_250ml	E10	29.5 % vol	250 ml	GA-xxx	04 2028	ISO 22854, ASTM D 1319, ASTM D 6839, ISO 3837, IP 156
Benzene Content	*BE-GA-xxx	Benzene Content_0.78 % vol_250ml	E10	0.78 % vol	250 ml	GA-xxx	04 2028	ISO 22854, EN 238, ASTM D 6839, ASTM D 4053
Multitest Hydrocarbon types and oxygenates content	MC-GA-xxx	Multitest content_250ml	E10	Aromatics : 29.6 % vo Benzène : 0.78 % vol Ethanol : 7.43 % vo Olefins : 11.39 % vo Total Oxygen : 3.30 % m	250 ml	GA-xxx	04 2028	Aromatics : ISO 22854, ASTM D 1319, ASTM D 6839, ISO 3837, IP 156 Benzène : ISO 22854, EN 238, ASTM D 6839, ASTM D 4053 Ethanol : ISO 22854, ASTM D 6839, EN 1601, EN 13132 Olefins : ISO 22854, ASTM D 6839, EN 15553 Total Oxygen : ISO 22854, ASTM D 6839, EN 1601, EN 13132
Motor Octane Number (Unleaded)	OM-95-xxx	Motor Octane Number_86.3_1000ml	E10	86.3	1000 ml	95-xxx	08 2026	ASTM D 2700 / ISO 5163
	OM-95-xxx	Motor Octane Number_86.5_1000ml	E10	86.5	1000 ml	95-xxx	09 2028	
	OM-98-xxx	Motor Octane Number_88.3_1000ml	E5	88.3	1000 ml	98-xxx	03 2027	
Research Octane Number (Unleaded)	OR-95-xxx	Research Octane Number_98.1_1000ml	E10	98.1	1000 ml	95-xxx	08 2026	ASTM D 2699 / ISO 5164
	OR-95-xxx	Research Octane Number_97.1_1000ml	E10	97.1	1000 ml	95-xxx	09 2028	
	OR-98-xxx	Research Octane Number_98.3_1000ml	E5	98.3	1000 ml	98-xxx	03 2027	

JET AVIATION Fuel

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Test name	Item code	Designation	Product	Value	Bottle Volume	Production lot	Expiration date	The certified value of this CRM can be used with the following test meth :
	Below, Informations to be reported on your order							
Density	*DE-KR-xxx	Density_803.2kg/m3_250ml	JET A1	803.2 kg/m3	250 ml	KR-xxx	08 2027	ASTM D 4052, ISO 12185, IP 365, ASTM D 1298, ISO 3675, IP 160
Freezing Point	*FR-KR-xxx	Freezing Point_-58.8°C_250ml	JET A1	- 58.8 °C	250 ml	KR-xxx	08 2027	ASTM D 5972 / IP 435, ASTM D 7153 / IP 529, ASTM D 7154 / IP 528, ASTM D 2386 / IP 16, ISO 3013
Distillation	*DI-KR-xxx	Distillation_158.8_250.5°C_250ml	JET A1	158.8°C / 250.5°C	250 ml	KR-xxx	08 2027	ASTM D 86, ISO 3405, IP 123, ASTM D 2887 / IP 406, ASTM D 7344, ASTM D 7345 / IP 596, DIN 51751
Sulphur of Mercaptans	*SM-KR-xxx	Sulphur Mercaptans_16.50mg/kg_250ml	JET A1	16.50 mg/kg	250 ml	KR-xxx	08 2027	ASTM D 3227 / IP 342, ISO 3012
Acidity	*AD-KR-xxx	Acidity_0.0054mg/g KOH_250ml	JET A1	0.0054 mg/g KOH	250 ml	KR-xxx	08 2027	ASTM D 3242 / IP 354
Abel Flash Point	*AB-KR-xxx	Abel Flash Point_48.1°C_250ml	JET A1	48.1 °C	250 ml	KR-xxx	08 2027	IP 170, EN ISO 13736, NFM 07011
Smoke Point	*SP-KR-xxx	Smoke Point_23.4mm_250ml	JET A1	23.4 mm	250 ml	KR-xxx	08 2027	ASTM D 1322 / IP 598, ISO 3014
Kinematic Viscosity -20°C	*VI-KR-xxx	Kinematic Viscosity_20°C_4.052mm2/s_250ml	JET A1	4.052 mm²/s	250 ml	KR-xxx	08 2027	ASTM D 445 / IP 71-1, ISO 3104, ASTM D 7042, ASTM D 7945
TAG Flash Point	FT-KR-xxx	TAG Flash Point_49.2°C_250ml	JET A1	49.2 °C	250 ml	KR-xxx	08 2027	ASTM D 56
FIA Aromatics	*FI-KR-xxx	FIA Aromatics_16.40%_250ml	JET A1	16.40 % Vol	250 ml	KR-xxx	08 2027	ASTM D 1319, IP 156, ISO 3837, EN NF 15553
Gum Content	GU-KR-xxx	Gum content_0,4mg/100ml_250ml	JET A1	0,4 mg/100ml	250 ml	KR-xxx	08 2027	ASTM D 381, ISO 6246, IP 540
Aniline Point	AP-KR-xxx	Aniline Point_58.5°C_250ml	JET A1	58.5 °C	250 ml	KR-xxx	05 2028	ASTM D 611 / IP 2-91, ISO 2592
Reference Fuel Smoke Point	SET-A	Fuel smoke point_14.7 to 42.8mm_7x25ml	MIX	14.7 up to 42,8 mm	7x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 1	Fuel smoke point_14.7mm_4x25ml	MIX	14.7 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 2	Fuel smoke point_20.2mm_4x25ml	MIX	20.2 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 3	Fuel smoke point_22.7mm_4x25ml	MIX	22.7 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 4	Fuel smoke point_25.8mm_4x25ml	MIX	25.8 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 5	Fuel smoke point_30.2mm_4x25ml	MIX	30.2 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 6	Fuel smoke point_35.4mm_4x25ml	MIX	35.4 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table
	SM-Mix 7	Fuel smoke point_42.8mm_4x25ml	MIX	42.8 mm	4x25ml	SP-xxx	05 2026	ASTM D 1322 Reference Fuels Table

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DIESEL

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Test name	Item code	Designation	Product	Value	Bottle Volume	Production lot	Expiration date	The certified value of this CRM can be used with the following test meth :
	Below, Informations to be reported on your order							
Density	*DE-GO-xxx	Density_833.0kg/m3_250ml	B7	833.0 kg/m3	250 ml	GO-xxx	06 2028	ISO 12185, ASTM D 4052, IP 365, ASTM D 1298, IP 160, ISO 3675
Cloud Point	*CP-GO-xxx	Cloud Point_-0.3°C_250ml	FOD	- 0.3 °C	250 ml	GO-xxx	02 2030	ASTM D 2500, ISO 3015, ISO 22995, ASTM D 5771, ASTM D 5772, ASTM D 5773 / IP 446
	*CP-GO-xxx	Cloud Point_-4.4°C_250ml	B7	- 4.4 °C	250 ml	GO-xxx	06 2028	ASTM D 2500, ISO 3015, ISO 22995, ASTM D 5771, ASTM D 5772, ASTM D 5773 / IP 446
	*CP-GO-xxx	Cloud Point_-6.6°C_250ml	B7	- 6.6 °C	250 ml	GO-xxx	03 2029	ASTM D 2500, ISO 3015, ISO 22995, ASTM D 5771, ASTM D 5772, ASTM D 5773 / IP 446
CFPP - Cold Filter Plugging Point	*CF-GO-xxx	CFPP_-14.3°C_250ml	FOD	- 14.3 °C	250 ml	GO-xxx	02 2030	ASTM D 6371, EN 116
	*CF-GO-xxx	CFPP_-19.4°C_250ml	B7	- 19.4 °C	250 ml	GO-xxx	06 2028	ASTM D 6371, EN 116
	*CF-GO-xxx	CFPP_-27.8°C_250ml	B7	- 27.8 °C	250 ml	GO-xxx	03 2029	ASTM D 6371, EN 116
Pour Point	*PP-GO-xxx	Pour Point_-21.3°C_250ml	B7	- 21.3 °C	250 ml	GO-xxx	06 2028	ASTM D 97, ISO 3016, IP 15, NF T60-105 , ASTM D 5950, ASTM D 6892, ASTM D 5985
	*PP-GO-xxx	Pour Point_-30.4°C_250ml	B7	- 30.4 °C	250 ml	GO-xxx	03 2029	ASTM D 97, ISO 3016, IP 15, NF T60-105 , ASTM D 5950, ASTM D 6892, ASTM D 5985
Distillation	*DI-GO-xxx	Distillation_161.4_362.2°C_250ml	B7	161.4 °C / 362.2 °C	250 ml	GO-xxx	06 2028	ASTM D 86, ISO 3405, IP 123, DIN 51751, ASTM D 2887 / IP 406, ISO 3924, ASTM D 7344, ASTM D 7345 / IP 596, EN 17306
Pensky Martens Flash Point	*PM-GO-xxx	Pensky Martens_56°C_250ml	FOD	56.0 °C	250 ml	GO-xxx	02 2030	ASTM D 93, ISO 2719, IP 34, NFT 60103, ASTM D 3828, ASTM D 7094
	*PM-GO-xxx	Pensky Martens_61.6°C_250ml	B7	61.6 °C	250 ml	GO-xxx	05 2030	ASTM D 93, ISO 2719, IP 34, NFT 60103, ASTM D 3828, ASTM D 7094
Kinematic Viscosity +20°C	*VI20-GO-xxx	Kinematic Viscosity +20°C_3.785mm2/s_250ml	B7	3.785 mm²/s	250 ml	GO-xxx	06 2028	ASTM D 445 / IP 71, ISO 3104, ASTM D 7945, EN 16896, ISO 23581, ASTM D 7042
Kinematic Viscosity +40°C	*VI40-GO-xxx	Kinematic Viscosity +40°C_2.488mm2/s_250ml	B7	2.488 mm²/s	250 ml	GO-xxx	06 2028	ASTM D 445 / IP 71, ISO 3104, ASTM D 7945, EN 16896, ISO 23581, ASTM D 7042
Sulphur Content	*SU-GO-xxx	Sulphur Content_8.4mg/kg_250ml	B7	8.4 mg/kg	250 ml	GO-xxx	06 2028	ASTM D 5453, ISO 20846, ASTM D 2622, ISO 20884, ISO 13032
Cetane Number	CN-GO-xxx	Cetane Number_53.1_1000ml	B7	53.1	1000 ml	GO-xxx	07 2030	ASTM D 613 / ISO 5165, EN 16715, IP 41, DIN 51773
	CN-GO-xxx	Cetane Number_54.0_1000ml	B7	54.0	1000 ml	GO-xxx	06 2027	ASTM D 613 / ISO 5165, EN 16715, IP 41, DIN 51773
FAME Content	FA-GO-xxx	FAME Content_3.42%_250ml	B5	3.42 % Volume	250 ml	GO-xxx	10 2026	EN 14078 - ASTM D 7371
	*FA-GO-xxx	FAME Content_6.19%_250ml	B7	6.19 % Volume	250 ml	GO-xxx	06 2028	
	FA-GO-xxx	FAME Content_97.94%_250ml	B100	97.94 % Volume	250 ml	GO-xxx	10 2026	EN 14103

LUBRICANT

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	Below, Informations to be reported on your order							
Density	DE-LU-xxx	Density_872.8kg/m3_250ml	LU	872.8 kg/m3	250 ml	LU-xxx	10 2028	ASTM D 4052 - ISO 12185
Cleveland Flash Point	FC-LU-xxx	Cleveland Flash point_234°C_250ml	LU	234 °C	250 ml	LU-xxx	10 2028	ASTM D 92 - ISO 2592 - IP 36/403
Pensky Martens Flash Point	PM-LU-xxx	Pensky Martens_209°C_250ml	LU	209 °C	250 ml	LU-xxx	10 2028	ASTM D 93 - EN 22719 - ISO 2719 - NFT 60103
Pour Point	PP-LU-xxx	Pour Point_-24.6°C_250ml	LU	-24,6 °C	250 ml	LU-xxx	10 2028	ASTM D 97–ASTM D 5950- NFT 60-105 – ISO 3016 – ASTM D 5949 – ASTM D 6749
Kinematic Viscosity at +20°C	VI20-LU-xxx	Kinematic Viscosity +20°C_88.1mm2/s_250ml	LU	88.1 mm²/s	250 ml	LU-xxx	10 2028	ASTM D 445 / ISO 3104
Kinematic Viscosity at +40°C	VI40-LU-xxx	Kinematic Viscosity +40°C_32.93mm2/s_250ml	LU	32.93 mm²/s	250 ml	LU-xxx	10 2028	ASTM D 445 / ISO 3104
Kinematic Viscosity at +100°C	VI100-LU-xxx	Kinematic Viscosity +100°C_5.59mm2/s_250ml	LU	5.59 mm²/s	250 ml	LU-xxx	10 2028	ASTM D 445 / ISO 3104